

ABSTRACT OF THE DISCLOSURE

A collimation assembly for a multi-beamed laser scanner including a collimation housing mounted to a printhead housing of the laser scanner, and at least two adjustment brackets supported on the collimation housing and located adjacent to each other in a cross-scan direction. Each of the adjustment brackets includes a mount member and a laser light source is supported within each of the mount members, each of the light sources defining a respective light beam axis. At least two collimation lenses are also provided supported on the collimation housing and intersected by one of the light beam axes. Each of the adjustment brackets is movable relative to the collimation housing in a scan direction and in the cross-scan direction to locate each of the light beam axes at a predetermined position relative to a respective collimation lens. Each of the laser light sources is additionally adjustable in the process direction, parallel to the light beam axes, to adjust the distance between the laser light sources and the collimation lenses.